

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1336947

Luminaire Tested: P3A05R209827DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R209827DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

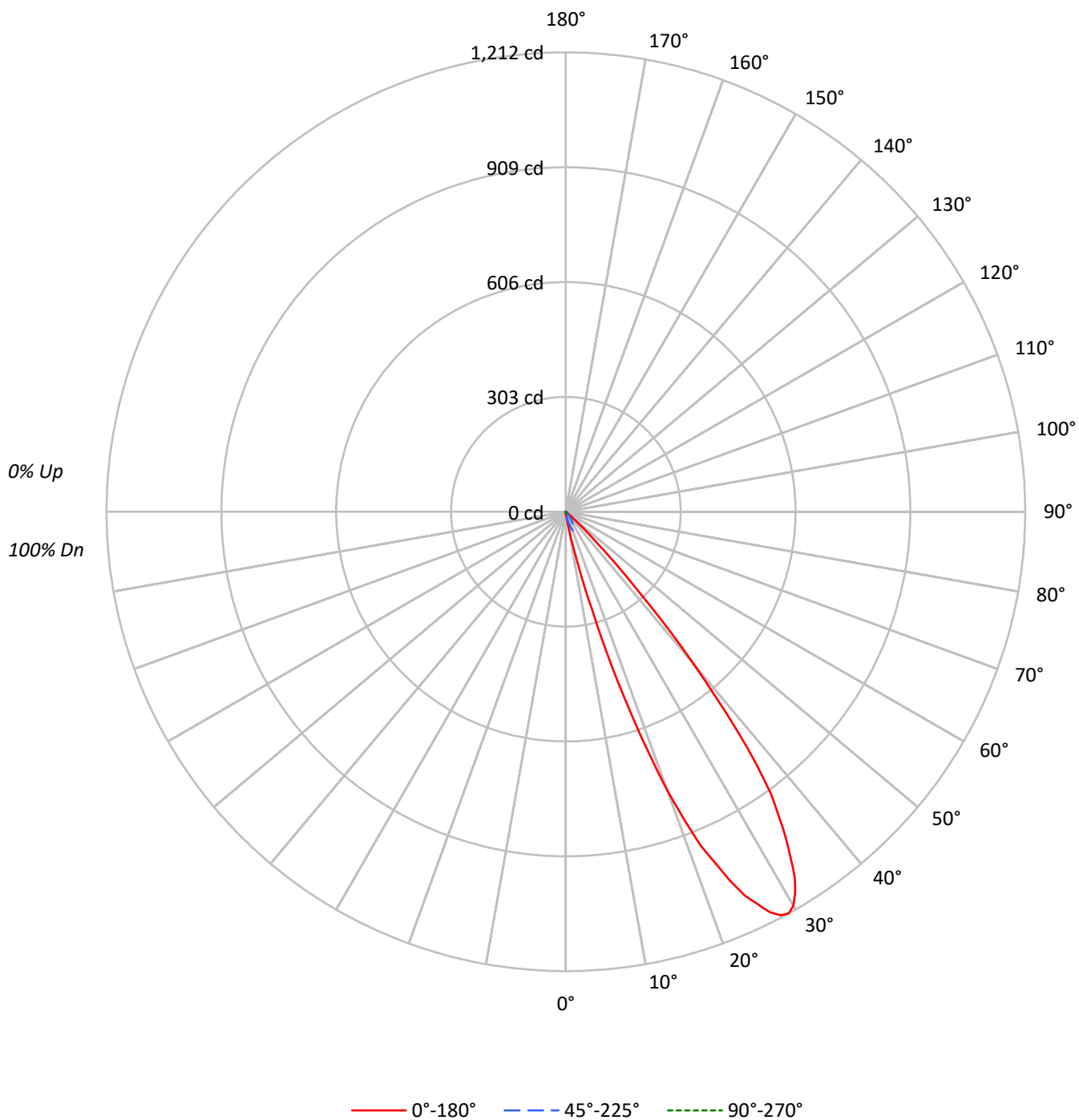
Lumens per Lamp: N/A
Luminaire Lumens: 170.1 lumens
Efficiency: N/A
Efficacy: 23.6 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	79	74	71	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1294	1294	1294	1294	1294
5°	2950	2201	1233	748	638
10°	9307	3852	1002	423	312
15°	60295	7106	726	136	45
20°	181969	12158	513	0	0
25°	270233	12267	290	0	0
30°	303895	9343	127	0	0
35°	262205	5568	80	0	0
40°	150997	1889	0	0	0
45°	36841	775	62	0	62
50°	4435	205	68	68	171
55°	573	0	115	115	229
60°	88	0	219	219	351
65°	104	104	311	311	467
70°	128	128	385	385	513
75°	0	169	508	424	508
80°	0	253	631	379	631
85°	0	503	1258	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 37058 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.5
10°-20°	15.8	9.3
20°-30°	68.7	40.4
30°-40°	69.2	40.7
40°-50°	13.9	8.2
50°-60°	0.7	0.4
60°-70°	0.5	0.3
70°-80°	0.4	0.3
80°-90°	0.2	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	85.2	50.1
0°-40°	154.4	90.8
0°-60°	169.0	99.3
0°-90°	170.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	170.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	13	10	6	3	3	2
15°	266	31	3	1	0	104
25°	1117	51	1	0	0	504
35°	980	21	0	0	0	583
45°	119	2	0	0	0	129
55°	2	0	0	0	1	3
65°	0	0	1	1	1	0
75°	0	0	1	0	1	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
2.5°	8.8	8.8	8.6	8.6	8.5	8.6	8.3	8.5	8.5	8.3	7.6
5°	13.4	13.7	13.6	13.6	13.4	13.6	13.3	13.0	12.6	12.6	10.0
7.5°	22.1	21.9	21.6	21.7	21.3	21.0	20.7	20.5	19.6	19.1	13.1
10°	41.8	42.7	42.0	41.8	39.0	38.9	37.0	34.4	32.1	30.8	17.3
12.5°	115.1	120.0	112.3	108.6	106.4	98.1	94.5	85.4	76.7	70.0	21.9
15°	265.6	277.8	262.2	263.3	250.3	226.6	205.7	187.9	166.7	145.4	31.3
17.5°	520.4	510.5	502.0	487.7	461.3	426.4	381.6	336.1	296.7	255.6	43.6
20°	779.8	771.0	751.7	720.4	686.8	635.1	581.8	513.4	447.3	385.3	52.1
21°	869.1	866.2	834.5	815.3	763.4	714.1	652.5	579.4	504.9	431.5	53.5
22°	948.8	931.2	914.3	885.7	834.2	780.6	712.1	635.1	554.3	472.7	53.7
23°	1004.0	996.0	980.0	947.7	896.5	833.5	761.3	680.8	595.6	501.9	53.2
24°	1065.1	1054.9	1031.5	993.9	942.2	879.9	797.5	717.6	625.1	526.4	52.0
25°	1116.9	1101.1	1073.3	1032.7	976.3	912.0	829.1	741.4	645.6	542.9	50.7
26°	1150.6	1141.9	1106.3	1062.2	1001.7	935.4	850.9	759.6	658.9	550.4	48.7
27°	1185.6	1169.7	1134.7	1083.9	1018.4	950.7	863.2	768.4	663.5	550.8	46.3
28°	1205.6	1188.3	1148.7	1095.3	1029.2	959.2	870.3	771.2	662.6	546.0	43.3
29°	1211.9	1190.2	1151.5	1097.2	1031.8	959.8	869.2	767.1	654.4	534.3	39.9
30°	1200.2	1178.0	1141.3	1088.4	1023.5	952.1	859.2	753.9	639.9	517.4	36.9
31°	1174.6	1155.8	1120.3	1067.3	1005.0	934.0	836.5	732.1	615.2	494.9	33.3
32°	1140.8	1122.3	1087.5	1039.5	976.1	904.6	805.5	698.2	586.2	461.3	29.8
33°	1090.1	1079.5	1048.1	1002.3	939.0	862.5	763.9	657.6	544.9	424.0	26.7
34°	1038.7	1025.3	1003.4	953.3	885.1	808.8	709.6	601.7	494.5	382.2	23.8
35°	979.5	971.5	937.1	897.0	828.5	750.5	651.9	547.2	435.7	335.6	20.8
36°	922.1	909.8	870.6	828.2	761.7	677.4	580.1	481.7	385.0	292.0	17.7
37°	838.9	820.0	792.1	747.4	669.7	597.8	509.0	417.7	322.5	244.8	14.3
38°	740.9	732.1	693.4	648.4	584.1	515.9	428.0	350.6	266.0	204.4	11.0
39°	625.4	625.2	588.2	555.7	492.8	431.4	352.1	284.6	219.6	164.6	8.5
40°	527.5	509.3	486.4	445.6	397.3	345.2	275.8	222.7	170.4	132.6	6.6
42.5°	276.5	275.0	261.6	230.9	203.9	173.2	137.7	114.7	89.8	73.1	4.2
45°	118.8	119.5	110.3	105.6	95.2	82.4	69.6	58.0	49.7	40.3	2.5
47.5°	30.1	28.8	28.5	29.6	29.6	28.7	25.8	24.2	22.4	20.5	1.4
50°	13.0	12.6	12.3	12.3	11.6	11.1	10.3	9.4	8.6	7.7	0.6
52.5°	4.8	4.9	5.1	4.9	4.9	4.8	4.8	4.6	4.2	3.7	0.3
55°	1.5	1.5	1.5	1.7	1.7	1.9	1.9	1.9	1.9	1.7	0.0
57.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.0	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	5.9	5.9	5.9	5.9	5.9	5.9
2.5°	6.8	6.0	5.1	4.3	4.2	4.0
5°	7.6	5.6	4.2	3.4	3.1	2.9
7.5°	8.2	5.1	3.4	2.5	2.2	2.0
10°	8.5	4.5	2.8	1.9	1.4	1.4
12.5°	8.6	3.9	2.0	1.2	0.8	0.8
15°	8.5	3.2	1.5	0.6	0.2	0.2
17.5°	7.7	2.6	0.9	0.2	0.0	0.0
20°	6.6	2.2	0.6	0.0	0.0	0.0
21°	6.3	1.9	0.5	0.0	0.0	0.0
22°	5.9	1.7	0.3	0.0	0.0	0.0
23°	5.4	1.5	0.3	0.0	0.0	0.0
24°	4.9	1.4	0.2	0.0	0.0	0.0
25°	4.6	1.2	0.2	0.0	0.0	0.0
26°	4.3	1.1	0.2	0.0	0.0	0.0
27°	3.9	0.9	0.0	0.0	0.0	0.0
28°	3.5	0.8	0.0	0.0	0.0	0.0
29°	3.1	0.6	0.0	0.0	0.0	0.0
30°	2.6	0.5	0.0	0.0	0.0	0.0
31°	2.2	0.5	0.0	0.0	0.0	0.0
32°	1.9	0.3	0.0	0.0	0.0	0.0
33°	1.5	0.3	0.0	0.0	0.0	0.0
34°	1.4	0.3	0.0	0.0	0.0	0.0
35°	1.2	0.3	0.0	0.0	0.0	0.0
36°	0.9	0.2	0.0	0.0	0.0	0.0
37°	0.8	0.2	0.0	0.0	0.0	0.0
38°	0.6	0.2	0.0	0.0	0.0	0.0
39°	0.5	0.0	0.0	0.0	0.0	0.0
40°	0.5	0.0	0.0	0.0	0.0	0.0
42.5°	0.2	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.2	0.0	0.0	0.2	0.2
47.5°	0.0	0.2	0.0	0.0	0.2	0.3
50°	0.0	0.2	0.2	0.2	0.3	0.5
52.5°	0.0	0.3	0.2	0.2	0.5	0.5
55°	0.2	0.3	0.2	0.3	0.6	0.6
57.5°	0.2	0.3	0.3	0.5	0.6	0.8
60°	0.3	0.5	0.5	0.5	0.8	0.8
62.5°	0.3	0.5	0.6	0.6	0.8	0.9
65°	0.3	0.6	0.6	0.6	0.8	0.9
67.5°	0.5	0.6	0.6	0.6	0.8	0.9
70°	0.5	0.6	0.6	0.6	0.8	0.8
72.5°	0.5	0.6	0.5	0.6	0.6	0.8
75°	0.5	0.6	0.5	0.5	0.6	0.6
77.5°	0.3	0.5	0.5	0.3	0.5	0.5
80°	0.3	0.5	0.3	0.3	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.3	0.5	0.3	0.2	0.3	0.3
85°	0.3	0.5	0.3	0.2	0.2	0.2
87.5°	0.3	0.5	0.3	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)